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FILE 'HCAPLUS' ENTERED AT 15:09:41 ON 11 MAY 2009
L1
         12250 S GANGLIOSIDE
L2
         11773 S GD3 OR GM2 OR GM3 OR GD1B
L3
          4676 S L1 AND L2
L4
        355798 S INFLAMM? OR ANTIINFLAMMATORY
L5
           130 S L3 AND L4
L6
         32002 S INFANT
L7
             3 S L5 AND L6
L8
           965 S GD3 AND GM3
L9
           906 S L1 AND L8
L10
            23 S L4 AND L9
L11
             8 S L10 AND (PY<2003 OR AY<2003 OR PRY<2003)
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L2
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          2638 S CHAGAS
L3
L4
             0 S L1 AND L2 AND L3
L5
            192 S L1 AND L2
L6
             4 S TRYPANOSOMASIS
L7
             0 S L5 AND L6
L8
       1027504 S FOOD OR FORMULA OR INFANT
L9
            20 S L5 AND L8
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12 \$ L9 AND (PY<2003 OR AY<2003 OR PRY<2003)

L10

FILE 'HOME' ENTERED AT 15:09:08 ON 11 MAY 2009

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY
FULL ESTIMATED COST 0.22 0.22

FILE 'HCAPLUS' ENTERED AT 15:09:41 ON 11 MAY 2009 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 11 May 2009 VOL 150 ISS 20 FILE LAST UPDATED: 8 May 2009 (20090508/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ganglioside

L1 12250 GANGLIOSIDE

=> s gd3 or gm2 or gm3 or gd1b 7935 GD3

2557 GM2 2965 GM3 1280 GD1B

2 11773 GD3 OR GM2 OR GM3 OR GD1B

=> s 11 and 12

L3 4676 L1 AND L2

=> s inflamm? or antiinflammatory

347013 INFLAMM?

60312 ANTIINFLAMMATORY

L4 355798 INFLAMM? OR ANTIINFLAMMATORY

=> s 13 and 14

L5 130 L3 AND L4

=> s infant

=> s 15 and 16

L7 3 L5 AND L6

=> d 17 1-3 ti abs bib

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Formulations for mediating inflammatory bowel disorders

AB The invention provides formulations and methods for mediating inflammation, in particular an inflammatory bowel

disorder such as necrotizing enterocolitis. Further, the formulations are effective in lowering blood cholesterol and decreasing blood cholesterol and sporption. The formulations comprise at least one ganglioide, which may be selected from the group consisting of: GD3, GM1, GM2, and GD1b. The invention provides a method of treating or preventing inflammatory diseases, such as

necrotizing enterocolitis by delivery of at least one ganglioside to a subject in need thereof. Supplementation of foods or ligs. with gangliosides, for example infant formula or infant

foods, can be employed according to the invention. AN 2007:815148 HCAPLUS <<LOGINID::20090511>>

DN 147:197354

TI Formulations for mediating inflammatory bowel disorders

IN Clandinin, Michael Thomas; Park, Eek J.

PA Mti Meta Tech Inc., Can.

SO U.S. Pat. Appl. Publ., 39pp., Cont.-in-part of U.S. Ser. No. 551,789 CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

I Alv.	PATENT	NO.	KI	ID DA	TE	APPI	LICATI	ON NO.		DATE	
PI	WO 200	4087173	A1 A2 A3	2 20	070726 041014 041125		2007-6 2004-C	22858 A375		20070: 20040:	
	W:	AE, AG, CN, CO, GE, GH, LK, LR, NO, NZ, TJ, TM, EW, GH, BY, KG, ES, FI,	AL, AM, CR, CU, GM, HR, LS, LT, OM, PG, TN, TR, GM, KE, KZ, MD, FR, GB,	AT, A CZ, D HU, I LU, L PH, P TT, T LS, M RU, T GR, H	U, AZ, E, DK, D, IL, V, MA, L, PT, Z, UA, W, MZ, J, TM, U, IE,	DM, DZ, IN, IS, MD, MG, RO, RU, UG, US, SD, SL, AT, BE, IT, LU,	, EC, , JP, , MK, , SC, , UZ, , SZ, , BG, , MC,	EE, EG, KE, KG, MN, MW, SD, SE, VC, VN, TZ, UG, CH, CY, NL, PL,	ES, H KP, H MX, M SG, S YU, 2 ZM, 2 CZ, H PT, H	FI, GB, KR, KZ, MZ, NA, SK, SL, ZA, ZM, ZW, AM, DE, DK, RO, SE,	GD, LC, NI, SY, ZW AZ, EE, SI,
PRAI	US 200 WO 200	TD, TG 60276430 4-551789 4-CA375 3-404095		L 20 2 20 20	061207 040312 040312 030402			51789			

- L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN
- TI High-affinity oligosaccharide receptors for Helicobacter pylori and therapeutic and diagnostic uses thereof
- AB The invention describes an oligosaccharide substance or receptor binding to Helicobacter pylori, and the use thereof in, e.g., pharmaceutical and nutritional compns. for the treatment of conditions due to the presence of Helicobacter pylori. The invention is also directed to the use of the receptor for diagnostics of Helicobacter pylori.

AN 2004:412821 HCAPLUS <<LOGINID::20090511>>

- DN 140:417912
- TI High-affinity oligosaccharide receptors for Helicobacter pylori and therapeutic and diagnostic uses thereof
- IN Teneberg, Susann; Miller-Podraza, Halina; Natunen, Jari; Karlsson, Karl-Anders
- PA Biotie Therapies Corp., Finland
- SO PCT Int. Appl., 109 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

FAN.		TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE	
PI		2004						2004			WO 2	003-1	FI84	0		2	0031	106
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	US	2006	0122								US 2	005-	5338	77		2	0051	123
PRAI	FΙ	2002	-198					2002	1106									
	WO	2003				W		2003										

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2009 ACS on STN
- TI Isolation and identification of buffalo milk gangliosides and their use for humanization of infant and other formulas
- AB The present invention relates to gangliosides derived or isolated from buffalo milk, skimmed buffalo milk, buffalo milk serum or derivs. of either. Buffalo milk is reported to comprise gangliosides that are not contained in bovine milk, such as gangliosides that belong to the GMI-class. Furthermore, buffalo milk is found to comprise unknown gangliosides, denoted herein as ganglioside "F" and "L". Furthermore, the invention reports that gangliosides are surprisingly found in fractions of isolation procedures that were so far not considered to comprise gangliosides. Finally, milk or milk serum from buffalo, for example as derived from mozzarella cheese production, contains specific gangliosides in the same amts. as human breast milk, which makes it suitable for humanization of infant and other formulas. Anti-inflammatory effects of buffalo milk gangliosides are also disclosed.
- AN 2003:509876 HCAPLUS <<LOGINID::20090511>>
- DN 139:68312
 - TI Isolation and identification of buffalo milk gangliosides and their use for humanization of infant and other formulas
- IN Colarow, Ladislas; Turini, Marco; Berger, Alvin
- PA Societe des Produits Nestle S.A., Switz.
- SO Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

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DT Patent
LA English
FAN.CNT 1
                 KIND DATE APPLICATION NO. DATE
    PATENT NO.
    EP 1323424 A1 20030702 EP 2001-130614 20011227
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     WO 2003055497 A1 20030710 WO 2002-EP14876 20021220
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
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             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
    AU 2002361244 A1 20030715
AU 2002361244 B2 20080807
EP 1461048 A1 20040929
                                         AU 2002-361244
                                                                  20021220
                                         EP 2002-796763
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            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                     A
                             20061222 NZ 2002-534132 20021220
    US 20050107311 A1 20050519
EP 2001-130614 A 20011227
WO 2002-EP14876 W 20021220
                                          US 2004-498946
                                                                  20040615
PRAI EP 2001-130614
RE.CNT 14
            THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
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     (FILE 'HOME' ENTERED AT 15:09:08 ON 11 MAY 2009)
     FILE 'HCAPLUS' ENTERED AT 15:09:41 ON 11 MAY 2009
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         12250 S GANGLIOSIDE
L2
         11773 S GD3 OR GM2 OR GM3 OR GD1B
L3
          4676 S L1 AND L2
L4
         355798 S INFLAMM? OR ANTIINFLAMMATORY
L5
          130 S L3 AND L4
L6
         32002 S INFANT
L7
             3 S L5 AND L6
=> s gd3 and gm3
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T.R
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     906 L1 AND L8
=> s 14 and 19
          23 L4 AND L9
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      22984035 PY<2003
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8 L10 AND (PY<2003 OR AY<2003 OR PRY<2003)

4506531 AY<2003 3975970 PRY<2003

- L11 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
- TI Isolation and identification of buffalo milk gangliosides and their use for humanization of infant and other formulas
- AB The present invention relates to gangliosides derived or isolated from buffalo milk, skimmed buffalo milk, buffalo milk serum or derivs. of either. Buffalo milk is reported to comprise gangliosides that are not contained in bovine milk, such as gangliosides that belong to the GMI-class. Furthermore, buffalo milk is found to comprise unknown gangliosides, denoted herein as ganglioside "F" and "L". Furthermore, the invention reports that gangliosides are surprisingly found in fractions of isolation procedures that were so far not considered to comprise gangliosides. Finally, milk or milk serum from buffalo, for example as derived from mozzarella cheese production, contains specific gangliosides in the same amts. as human breast milk, which makes it suitable for humanization of infant and other formulas. Anti-inflammatory effects of buffalo milk gangliosides are also disclosed.
 - 2003:509876 HCAPLUS <<LOGINID::20090511>>
- DN 139:68312

AN

- TI Isolation and identification of buffalo milk gangliosides and their use for humanization of infant and other formulas
- IN Colarow, Ladislas; Turini, Marco; Berger, Alvin
- PA Societe des Produits Nestle S.A., Switz.
- SO Eur. Pat. Appl., 24 pp.
- CODEN: EPXXDW
- DT Patent
- LA English

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PRAI	EP 2																	
	WO 2	2002-	EP1	1876		W		2002	1220	<-	-							

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L11 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
- TI Novel carbohydrate specificity of the 16-kDa galectin from Caenorhabditis

- elegans: binding to blood group precursor oligosaccharides (type 1, type 2, $T\alpha$, and $T\beta$) and gangliosides
- Galectins, a family of soluble β-galactosyl-binding lectins, are AB believed to mediate cell-cell and cell-extracellular matrix interactions during development, inflammation, apoptosis, and tumor metastasis. However, neither the detailed mechanisms of their function(s) nor the identities of their natural ligands have been unequivocally elucidated. Of the several galectins present in the nematode Caenorhabditis elegans, the 16-kDa "proto" type and the 32-kDa "tandem-repeat" type are the best characterized so far, but their carbohydrate specificities have not been examined in detail. Here, we report the carbohydrate-binding specificity of the recombinant C. elegans 16-kDa galectin and the structural anal. of its binding site by homol. modeling. Our results indicate that unlike the galectins characterized so far, the C. elegans 16-kDa galectin interacts with most blood group precursor oligosaccharides (type 1, GalB1,3GlcNAc, and type 2, Galβ1, 4GlcNAc; Tα, Galβ1, 3GalNAcα; Τβ, Galβ1, 3GalNAcβ) and gangliosides containing the Tβ structure. Homol. modeling of the C. elegans 16-kDa galectin CRD revealed that a shorter loop containing residues 66-69, which enables interactions of Glu67 with both axial and equatorial -OH at C-3 of GlcNAc (in GalB1, 4GlcNAc) or at C-4 of GalNAc (in GalB1, 3GalNAc), provides
- the structural basis for this novel carbohydrate specificity.
 AN 2002:639467 HCAPLUS <<LOGINID::20090511>>
- DN 138:85137
- TI Novel carbohydrate specificity of the 16-kDa galectin from Caenorhabditis elegans: binding to blood group precursor oligosaccharides (type 1, type 2, Ta, and TB) and ganaliosides
- AU Ahmed, Hafiz; Bianchet, Mario A.; Amzel, L. Mario; Hirabayashi, Jun;
- Kasai, Ken-Ichi; Giga-Hama, Yuko; Tohda, Hideki; Vasta, Gerardo R.
- CS Center of Marine Biotechnology, University of Maryland Biotechnology Institute, Baltimore, MD, 21202, USA
- SO Glycobiology (2002), 12(8), 451-461
- CODEN: GLYCE3; ISSN: 0959-6658
- PB Oxford University Press
- DT Journal
- LA English
- RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L11 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
- TI Colostrum-based pharmaceutical compositions
- AB A composition including colostrum or a colostrum-derived product and hyperimmune milk (HIM) or a hyperimmune milk-derived product, in amts. sufficient to provide a combined spectrum of pathogen-binding activity against a broad-spectrum of pathogenic organisms is described. For example, a test composition was prepared including 70% colostrum milk protein powder, 24% hyperimmune milk powder, 4% ganglioside-containing component, whey powder, lactose and 1.5% milk calcium. The test composition of the invention includes a combination of ingredients each of which has particular antimicrobial binding and/or anti-inflammatory activity which may combine to produce particular and unexpected clin. benefits in a broad range of diseases, including infection-associated diseases, and particularly gastrointestinal, inflammatory and bone related disorders. Such benefits are an unexpected result of the combination used.
- AN 2002:391563 HCAPLUS <<LOGINID::20090511>>
- DN 136:391021
- TI Colostrum-based pharmaceutical compositions
- IN Williams, Charles Edward; Hobman, Peter Graeme; Yarrow, Simon Stephen
- PA Fonterra Co-Operative Group Limited, N. Z.

SO PCT Int. Appl., 43 pp. CODEN: PIXXD2

DT Patent LA English

FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002040051 A1 20020523 WO 2001-NZ256 20011115 <--W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2002024240 20020527 AU 2002-24240 20011115 <--20030910 EP 2001-996393 20011115 <--A EP 1341554 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR A2 20040610 A3 20050628 C 200705 20040610 JP 2002-542423 JP 2004517067 20011115 <--HU 2004000589 HU 2004-589 20011115 <--HU 2004000589 US 20050220894 A1 20040311 WS 20050220894 A1 20051036 PRAI NZ 2000-508234 A 20001115 WO 2001-NZ256 W CN 2001-822044 US 2003-416831 US 2005-136575 20011115 <--20031008 <--20050525 <--A 20001115 <--W 20011115 <--A3 20031008 US 2003-416831 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Novel synthetic gangliosides GI

AB Disclosed are novel synthetic ganglioside comprising a modified sphingosine group represented by Structural Formula (I), Y is -O- or -NH-; X is =O or -H2; R1 and R2 are independently a substituted or unsubstituted straight chain or branched hydrocarbyl group, wherein the hydrocarbyl group optionally comprises -S-, -S(O)-, -SO2-, -O- or -NR- (each R is independently -H, an aliphatic group, a substituted aliphatic group, an aryl group or a substituted aryl group; and R3 is -H, -S(O)2H, -P(O)2OH, -N(O)8O or -P(O)2OF (O2)OH. Also disclosed are methods of treating a subject with a neurol. condition or disease and methods of treating a subject in need of immunosuppression. The subject can be, e.g., in need of neuroprotection, in need of neurogenesis.

The method can be used for immunosuppression, e.g., a subject with organ, bone marrow, or stem cell transplant or a subject with autoimmune disease. The methods comprises the step of administering to the subject an effective amount of the synthetic ganglioside represented by

Structural Formula (I).

AN 2002:171915 HCAPLUS <<LOGINID::20090511>>

DN 136:210593

TI Novel synthetic gangliosides

IN Ho, Tony W. PA Neuronyx, Inc., USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

FAU.		ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D	ATE		
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		RW:	PT, US, GH,	RO, UZ, GM,	RU, VN, KE,	SD, YU, LS,	SE, ZA, MW,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	
PRAI	US	2001 2000 2001	0853 -654	59 363	·	A A1	•	2000	0313 0901	<-	AU 2							830 <	

OS MARPAT 136:210593

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN

TI Human sialyltransferase sequence homolog 27 and its cDNA and therapeutic use thereof

AB The invention provides cDNA sequences of a novel human sialyltransferase (alpha 2,8-sialyltransferase, or GD3 synthase) sequence homolog 27 (also referred HST27) cloned from human embryonic brain. The invention also relates to constructing the cloned gene expression vectors to prepare its recombinant protein using E. coli cells or eukaryotic cells. Methods of expressing and preparing the above recombinant protein and its antibody are described. Methods of using related gene or protein products for the treatment of various kinds of diseases, such as cancer, blood diseases, HIV infection, immune diseases and inflammation are also disclosed. Methods for screening for related analogs, agonists,

disclosed. Methods for screening for related analogs, agonists, inhibitors and antagonists to be used as therapeutic drugs are also described.

AN 2001:917884 HCAPLUS <<LOGINID::20090511>>

DN 136:32720

- TI Human sialyltransferase sequence homolog 27 and its cDNA and therapeutic use thereof
- IN Mao, Yumin; Xie, Yi; Qiu, Minyan; Wang, Yong; Jiang, Guangping
- PA Shanghai Borong Gene Development Co., Ltd., Peop. Rep. China SO Faming Zhuanli Shenging Gongkai Shuomingshu, 29 pp.

CODEN: CNXXEV

Patent

LA Chinese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	
I RAI	CN 1298005 CN 1999-124142	A		CN 1999-124142	19991129 <
III III IB IN IN IN IN IN IN IN IN IN IN IN IN IN	In lesions of malig cytokines produced transformation of m alterations in hume exposing melanoma c (IL)-2, and IL-4 by a-series gangliosic suggests an alterat ganglioside sialylt malignant character ganglioside profile progression of mali interactions betwee 1996:388821 HCAPLL 125:55925 125:10761a,10764a Alteration of human Ando, Iwao; Komine,	melanc nant me by infi elanoma n melar ell lin bioche es and ion of ransfer of the varied gnant r n the r S < <loo melanc Mayumi 1, Teil ogy (15:</loo 	oma ganglios blanoma, mel lammatory re a calls is e e coma cell si se e coma cell si se to inter m. methods. the ratio o immunoreact case II acti se cells. d among cyto melanoma may melanoma cel SINID::20090 oma ganglios ; otsuka, F (yo Universi 1996), 23(4), 2407	ides by IFN-y, IL-2, anoma cells are expo- actions. As a resul- xpected to occur. We me ganglioside compo- feron (IFN)-y, inter: IFN-y increases the fGM3/GD3. This ivity, and decrease in vity, and an decrease the alteration of the kines and cell lines be influenced by rels and the host immusil> ides by IFN-y, IL-2, ujio; Kukita, Atsush ty, Kawasaki, 213, J	sed to various t, a studied situon after leukin e ratio of e in the e . The ciprocal ne system.
ill I	The alternative com important in inflam foreign substances although to date no complement receptor of LPS to gangliosi gangliosides which activity on the hum activate this pathwneutral sugars cont correlation of the	tivate plement matory such as intrin type 2 de, the are abu an ACP. ay in a ained i thresho	human alter t pathway (A reactions, s bacterial nsic activat 2. From the e authors ha andantly pre All of 7 a manner dep in the mols. old in gangl	native complement pa (P) in vertebrates i and to be activated lipopolysaccharide (, ors have been identi- point of the structive ve investigated sent in animal cells gangliosides tested ' ending on the number A dose-response str- ioside concentration iosides may thus ser-	s known to be by LPS) and zymosan, fied except ural similarity for their were found to of sialic acids ady suggested a with its we as an intrinsi

AN 1994:29039 HCAPLUS <<LOGINID::20090511>>

DN 120:29039

OREF 120:5461a,5464a

is also discussed.

TI Gangliosides can activate human alternative complement pathway

The possibility of the participation of sialidase in complement activation

AU

Oshima, Haruyuki; Soma, GenIchiro; Mizuno, Denichi Biotechnol. Res. Cent., Teikyo Univ., Kawasaki, 216, Japan CS

International Immunology (1993), 5, 1349-51

CODEN: INIMEN; ISSN: 0953-8178

DT Journal

LA English

L11 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN

- TI Angiogenesis can be stimulated or repressed in vivo by a change in ${\tt GM3:GD3}$ ganglioside ratio
- AB The authors have previously observed that rabbit cornea stimulated by an angiogenic factor became richer in total gangliosides and reduced the GM3:GD3 ganglioside ratio. Moreover, exptl.

induced global enrichment of corneal gangliosides favors angiogenesis. The objective of this work was to explain the possible relation between angiogenic response and changes in the GM3:GD3 ratios

observed in vivo. Cornea was utilized because it is avascular and transparent; i.e., the onset of opacity permitted exclusion of anciocenesis produced by a generic inflammatory response. PGEI

or basic fibroblast growth factor were applied as angiogenesis triggers. Angiogenesis in vivo and mobilization and growth of microvascular endothelium in vitro were taken as parameters to indicate whether differences in GM3:GD3 ratios could modify the extent

of the angiogenic response. In vivo angiogenesis, whether PGE1 or basic fibroblast growth factor induced, was repressed by GM3 and enhanced by GD3 or GM1 enrichment of the cornea. In vitro

eminiced by GDS of GMT entremment of the colonea. In victor growth and motility of microvascular endothelium were reduced by GMS addition to the medium and returned to normal levels by addition of GDS. Formation of new vessels induced by 2 different angiogenic

factors could be stimulated or repressed in the cornea by reduction or enhancement of the GM3:GD3 ratio of tissue gangliosides. Changes in the relative proportion of mols. normally

gangliosides. Changes in the relative proportion of mois normally present in adult tissues, like PGEI, basic fibroblast growth factor, GM3, GD3, were sufficient to modulate or even block and openesis.

AN 1993:231007 HCAPLUS <<LOGINID::20090511>>

DN 118:231007

OREF 118:39911a,39914a

TI Angiogenesis can be stimulated or repressed in vivo by a change in GM3:GD3 ganglioside ratio

AU Ziche, Marina; Morbidelli, Lucia; Alessandri, Giulio; Gullino, Pietro M. CS Dep. Preclin. Clin. Pharmacol., Univ. Florence, Florence, Italy

SO Laboratory Investigation (1992), 67(6), 711-15

CODEN: LAINAW; ISSN: 0023-6837

DT Journal LA English

=> s ganglioside L1 12250 GANGLIOSIDE

=> s oral or orally 244398 ORAL

93864 ORALLY L2 310456 ORAL OR ORALLY

=> s chagas

L3 2638 CHAGAS

=> s 11 and 12 and 13

L4 0 L1 AND L2 AND L3

=> s 11 and 12

L5 192 L1 AND L2

=> s trypanosomasis

L6 4 TRYPANOSOMASIS

=> s 15 and 16

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L7 0 L5 AND L6
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=> s food or formula or infant 461715 FOOD 545464 FORMULA 32003 INFANT

L8 1027504 FOOD OR FORMULA OR INFANT

=> s 15 and 18 L9 20 L5 AND L8

=> s 19 and (PY<2003 or AY<2003 or PRY<2003)

s 19 and (PY<2003 or 22984036 PY<2003 4506532 AY<2003

3975971 PRY<2003 L10 12 L9 AND (PY<2003 OR AY<2003 OR PRY<2003)